



# भारत का राजपत्र The Gazette of India

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No. 13] NEW DELHI, SATURDAY, MARCH 30, 1985 (CHAITRA 9, 1907)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है, जिससे कि यह अलग संकलन के रूप में रखा जा सके ।  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III—खण्ड 2

### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
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APPLICATION FOR PATENT FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSH ROAD, CALCUTTA-17

The date shown in crescent brackets are the dates claimed under Section 135. of the Act

21st February, 1985

- 121/Cal/85 The Babcock & Wilcox Company Solid state ultra-violet flame detector.
- 122/Cal/85 The Budd Company Brake Arrangements for Railway Trucks
- 123/Cal/85 Metallgesellschaft Aktiengesellschaft Collecting Electrodes for dust collectors
- 124/Cal/85. Hoechst Aktiengesellschaft Process for preparing 6-Acetoxy-2-Naphthoic acid and pure 6-Hydroxy-2-Naphthoic acid.
- 125/Cal/85. Asahi Kasei Kogyo Kabushiki Kaisha A novel human physiologically active polypeptide
- 126/Cal/85 Kabushiki Kaisha Meidensha Contact electrode material for vacuum interrupter and method of manufacturing the same
- 127/Cal/85. O. T. C. A/S Derrick

22nd February, 1985

- 128/Cal/85. Degussa AG. A process for the production of camomile extracts rich in flavones.
- 129/Cal/85 White Consolidated Industries, Inc Reed valve for refrigeration compressor.
- 130/Cal/85. Piat Moise Improvements to tailer apparatuses especially to those of hydraulic valve type.
- 131/Cal/85 Concast Service Union AG. Method and apparatus for the continuous casting of metal between two axially parallel cooled cylinders
- 132/Cal/85. Krauss-Maffei Aktiengesellschaft. Method of and apparatus for separating mixtures of substances
- 133/Cal/85 Fletcher Sutcliffe Wild Limited Sprocket/Barrel Assembly frame and conveyor

23rd February, 1985

- 134/Cal/85 The Babcock & Wilcox Company Diaphragm deflection sensor for fused silica diaphragm module
- 135/Cal/85 (1) G. K. Purkayastha (2) K. M. Purkayastha, (3) Somenath Purkayastha PVC Tube Guard (Flap).
- 136/Cal/85 Projects & Development India Limited A process for the preparation of hydrolysed polymaleic anhydride from commercial grade metallic anhydride.
- 137/Cal/85 VEB Stahl- Und Walzwerk "Wilhelm Florin". Reinforcing steel for concrete hot-rolled and thermally strengthened

25th February 1985

- 138 Cal/85 Adolf Berkman Process and device for drying up of emulsified objects by means of infrared radiation
- 139/Cal/85 Westinghouse Electric Corporation Improvements in or relating to blade ring for a steam turbine
- 140/Cal/85 Westinghouse Electric Corporation. Improvements in or relating to dynamoelectric machine with stator coil end turn support system

26th February 1985

- 141/Cal/85 The Babcock & Wilcox Company Linear hall effect oxygen sensor

- 142 Cal 85 Miguel Fava Brigante Unitary package for water treatment for attachment to home hot water heater

- 143/Cal/85 Miguel Fava Brigante External sludge collector for boiler bottom blowdown and automatic blow-down control initiated by conductivity probe within the boiler and method.

- 144 Cal 85. Miguel Fava Brigante Free flow non-corrosive water treatment device

- 145/Cal/85 Miguel Fava Brigante. Multi-stage apparatus for the separation of finely divided solids from liquids.

APPLICATION FOR PATENT FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, THIRD FLOOR, KAROL BAGH, NEW DELHI-5

11th February, 1985

- 105/Del 85. Council of Scientific and Industrial Research, "A process for the simultaneous preparation sodium vanadate and zeolite by the thermal treatment of vanadium sludge"
- 106/Del/85 Nareesh Chand Sharma, "An electric rope hoist".
- 107/Del/85 Bhushan Lal Mittal, "A heating apparatus".
- 108/Del/85. Harushige Taniguchi. "Carrier for supporting user's body"
- 109 Del/85. Chartered Industries of Singapore Pvt. Ltd., "Drum magazine for a gun". (Convention date December 11, 1980) (U.K.), [Divisional date November 24, 1981].

12th February, 1985

- 110/Del/85. Pfizer Inc., "A process for producing novel 2-hydroxy-4-(substituted) phenyl cycloalkanes". [Divisional date August 7, 1981].
- 111/Del/85. Lintvalve Electronic Systems Ltd., "Steam leak detection" (Convention date November 20, 1984) (U.K.).
- 112/Del/85. Sohio Commercial Development Co., and BP Photovoltaics Ltd., "Thin film heterojunction photovoltaic devices that utilize Cd rich  $Hg_{1-x}Cd_x$  Te and method of electrodeposition of same".
- 113/Del/85. Michael L. Brier, "Disposable waterproof encasement and panty for sanitary pad".
- 114/Del/85 Pfizer Inc., "A process for preparing 2-guanidino-4-heteroarylthiazoles". [Divisional date September 7, 1981]

13th February, 1985

- 115 Del 85 Brij Kishore Gupta, "Antimated cinema slide with voice"
- 116/Del/85 Energy Conversion Devices, Inc., "Improved large area photovoltaic cell and method for producing same".
- 117/Del 85 Process Evaluation and Development Corporation "Process for producing a pulp suitable for producing a medium strength paper". [Divisional date May 25, 1981]
- 118/Del/85 Peakmicro Ltd "Improvements relating to vending machines." (Convention date February 22, 1984) (U.K.)
- 119 Del 85 Societe Nationale Elf Aquitaine, "A process and an installation for distillation of petroleum by progressive separations".
- 120/Del/85 Pfizer Inc., "A process for preparing 2-guanidino-4-heteroarylthiazoles" [Divisional date September 7, 1981]

14th February, 1985

- 121 Del 85 Kuldip Singh Larg, "Easy cube".

122/Del/85 UOP Inc, "Polyme Blended Membranes .

123/Del/85 Ruhrkohle Aktiengesellschaft "Coke oven door for a horizontal chamber coking oven"

124/Del/85 Pfizer Inc, "A process for preparing 2 guanidino 4-heteroarylthiazoles [Divisional date September 7, 1981]

125/Del/85 Societe Nationale Des Poudres Et Explosifs, "Process for preparing carbamic acid derivatives"

15th February 1985

126/Del/85 Santa Barbara Research Center, "Dual spectrum frequency responding fire sensor"

127/Del/85 Meyhall Chemical AG, "Process for separating polysaccharide containing flours into high protein and low protein fractions (Convention date June 29, 1984) (U K)

16th February, 1985

128/Del/85 Council of Scientific and Industrial Research "Low voltage room electrostatic precipitator"

APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61 WALLAJAH ROAD, MADRAS 600 002

11th February, 1985

109/Mas/85 Magyar Aluminiumipari Troszt Process and Apparatus for the mixing of slurries

110/Mas/85 Magyar Aluminiumipari Troszt Process and apparatus for the separation of slurry with different grain size into two phases in a tank

111/Mas/85 Shaw Industries Ltd, Coated pipe having bending capability (February 22, 1984, Canada)

112/Mas/85 Metal Box plc Closure for container (February 18, 1984, United Kingdom)

12th February, 1985

113/Mas/85 Corning Glass Works A method of manufacturing an optical waveguide preform (Divisional to Patent Application No 353/Cal/82)

114/Mas/85 Edouard Touillet Gas producer furnace

115/Mas/85 Samancor Management Services (Pty) Limited Method for sorting of ore

116/Mas/85 Maschinenfabrik Rieter AG. Method and apparatus for producing a yarn

117/Mas/85 Joseph L Powell Document sending device

118/Mas/85 Metal Box plc Method of an apparatus for forming a reinforced can end

119/Mas/85 Raychem Corporation Laminar conductive polymer devices (February 13, 1984, United Kingdom)

13th February, 1985

120/Mas/85. D K Murali New method of prestressing of beams.

121/Mas/85 Officine Meccaniche Riva Srl Machine for producing textured crepe yarn

122/Mas/85 Raychem Limited Adhesive composition (February 14, 1984, United Kingdom)

123/Mas/85 Graesser Laboratories Limited Ultra-violet absorbing compounds and compositions containing said compounds (February 14, 1984, United Kingdom).

124/Mas/85 Dailey Petroleum Services Corp Shock absorbing drilling tool

14th February, 1985

125/Mas/85 The Dow Chemical Company Bis (Amino-alkyl) Piperazine derivatives and their use as metal ion control agents and cement set retarding agents

126/Mas/85 Institut Francais Du Petrole & Compagnie Generale De Geophysique A device for receiving sound waves in a well

127/Mas/85 Indag Gesellschaft für Industriebedarf mbH Beverage container

15th February, 1985

128/Mas/85 K Naganathan A method of preparing a composite anode for protection of underground pipelines and the anode prepared by the said methods

129/Mas/85 Air Products and Chemicals, Inc Dual Feed air pressure nitrogen generator cycle

130/Mas/85 Snamprogetti SpA Process for the preparation of a suspension of solids at high concentration

131/Mas/85 A H Robins Company N (1-substituted-4, 5-Dihydro-1H-Pyrazol-4-YL) Benzamides

132/Mas/85 Palitex Project Company GmbH A yarn wetting device and a two-for-one twisting spindle equipped with a yarn wetting device

16th February, 1985

133/Mas/85 Union Carbide Corporation Transition metal complex catalyzed reactions

134/Mas/85 Union Siderurgique Du Nord Et De L'Est De La France Coal gasification installation

135/Mas/85 Raychem Corporation Insulating multiple-conductor cables

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CLASS 40-F, 139 A

155942

Int Cl B 01 j 4/00, C 09 c 1/48

IMPROVED FURNACE PROCESS FOR THE PRODUCTION OF HIGH TREAD GRADE RUBBER REINFORCING CARBON BLACK

Applicant ASHLAND OIL INC AT P O BOX 391  
ASHLAND KENTUCKY 41101 U S A

Inventor 1 RICHARD HARRINGTON REYNOLDS

Application No 126/Cal/76 filed July 15 1976

Appropriate office for opposition proceedings (Rule 4  
Patents Rules, 1972) Patent Office, Calcutta

4 Claims

Improved furnace process for the production of high tread grade rubber reinforcing carbon black which comprises subjecting a fuel gas to substantially complete combustion within a tubular chamber having a diameter substantially larger than the length thereof causing the resulting gases of combustion to envelope a centrally confined spray of a normally liquid hydrocarbon feedstock and introducing the gas envelope spray of feedstock into a tubular reaction zone wherein the feedstock is thermally decomposed into carbon black under highly turbulent flow conditions the said tubular reaction zone being centrally aligned with the tubular combustion chamber and in open communication therewith and having a diameter substantially smaller than that of the chamber the process being characterized by introducing a plurality of laterally disposed individual sprays of the feedstock into said reaction zone whereby the sets of injection are contiguous to said communicating opening of the reaction zone

Compl specn 11 pages

Dtg 1 sheet

CLASS 32 F, (b) 40 F

155943

Int Cl C 07 d 27/08

IMPROVED SOLVENT RECOVERY PROCESS FOR N METHYL 2 PYRROLIDONE IN HYDROCARBON EXTRACTION

Applicant LIXON RESEARCH AND ENGINEERING  
COMPANY OF 1900 LINDEN AVENUE LINDEN NEW  
JERSEY 07036 U S A

Inventors 1 JAMES DYCKMAN BUSHNELL 2 MIL-  
TON DALE EIGHTON 3 THOMAS MITCHELL MC  
DONALD

Application No 353 Cal/77 filed March 9, 1977

Appropriate office for opposition proceedings (Rule 4  
Patents Rules, 1972) Patent Office, Calcutta

12 Claims

An improved process for removing minor amounts of water extraneously introduced into a hydrocarbon extraction solvent comprising NMP and minor amounts of water said process comprising removing most of said solvent from a hydrocarbon extract as a first solvent vapor by flash evaporation simple distillation rectification or combination thereof and stripping residual solvent from said extract with a non aqueous stripping gas to form a mixture of solvent vapor and stripping gas separating said solvent from said gas and recovering said solvent wherein the improvement comprises the steps of

- combining said first solvent vapor with said mixture,
- passing said combined mixture which contains extraneous and non extraneous water through a first condensing zone wherein most of the solvent and said mixture is condensed to a liquid to form a mixture of condensed solvent stripping gas and vapor and wherein said vapor contains NMP and said extraneous water,
- passing said second mixture to a separating zone to separate said condensed solvent from said vapor and stripping gas,

(d) passing at least a portion of the separated vapor and stripping gas from said separating zone to a rectifying zone wherein said NMP and said vapor is condensed and separated from said extraneous water and stripping gas

(e) passing said extraneous water vapor and stripping gas from said rectifying zone to a second condensing zone to condense the extraneous water and separate same from the stripping gas and

(f) returning a portion of said condensed water from the second condensing zone back to said rectifying zone to act as reflux therein

Compl specn 15 pages

Dtg 1 sheet

CLASS 125 G

155944

Int Cl A 61 m 1/00

ARTICLE FOR COLLECTING AND RETAINING AMNIOTIC FLUID

Applicant & Inventor ADAM GRAETZ AT CASTEL-  
VINCI GIATA FIORENTI FLORENCE ITALY

Application No 519/Cal/77 filed April 6 1977

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules 1972) Patent Office, Calcutta

10 Claims

An article for collecting and retaining amniotic fluid discharged from an expectant mother comprising body engaging support means the improvement characterized by a flat, flexible pocket forming member engaged at forward and rearward ends by said support means said pocket forming member having a fluid receiving opening in its upper portion, fluid receiving receptacle formed of lightweight flexible foldable material and having its open upper end secured to and communicating with said opening a flat pocket formed in said pocket-forming member below said fluid receiving opening, for the reception and containment of said receptacle in a flat, folded condition said receptacle being quickly removable from said pocket while said article is being worn by the user, to place said receptacle in fluid receiving condition

Compl specn 12 pages

Dtg 2 sheets

CLASS 32-F, c 40 F

155945

Int Cl B 05 h 3 02 3/04 C 07 d 55/24

DEVICE FOR SPRAYING LIQUIDS

Applicant STAMICARBON BV OF P O BOX 10 CE-  
LLEN THE NETHERLANDS

Inventors 1 RUDOLF VAN HARDEVELD 2 PIETUS  
FRANCISCUS ALPHONSUS MARIA HENDRIKS

Application No 387 Cal/77 filed March 17 1977

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules 1972) Patent Office, Calcutta

9 Claims

Device for spraying a liquid material by means of a gas or gas mixture and consisting of a tube that is suitable for the supply of liquid and fitted coaxially in a tube for the supply of atomizing gas so that the gas supply tube extends, to beyond the outflow opening of the liquid tube the device being characterized in the bore of the gas tube is reduced at a zone near to its outlet end so as to provide at that zone an internal annular surface portion at an angle of between 70° and 90° to the axis of the sprayer which surface portion leads by way of a convexly curved transition surface portion into a comparatively short outflow channel ending at the sprayer outflow opening in that the end face of the liquid tube is chamfered at an angle of between 70° and 90° to the axis of the sprayer so that the said annular surface portion of the gas tube and the said end face of the liquid tube define an annular channel which converges towards the sprayer axis,

in the flow direction and has an apex angle or mean apex angle between 140 and 180°, in that the said transition surface portion of the gas tube is curved at a radius which is from 0.1 to 0.4 times the diameter of the outflow opening of the sprayer, in that the diameter of the outflow opening of the sprayer is from 1.0 to 1.6 times the diameter of the outflow opening of the liquid tube and in that the passaged area of the sprayer outflow opening is equal to or smaller than the smallest passage area of the said converging channel

Compl specn 16 pages

Drgs 2 sheets

CLASS 32 F b, 6 G x

155946

Int Cl C 07 d 13/10

# PROCESS FOR THE MANUFACTURE OF HERBICIDALLY ACTIVE BENZODIOXOLE DERIVATIVES

Applicant SCOTT'S PAKTUNGSELSCHAFT, OF BERLIN AND BERGKAMEN, GERMANY

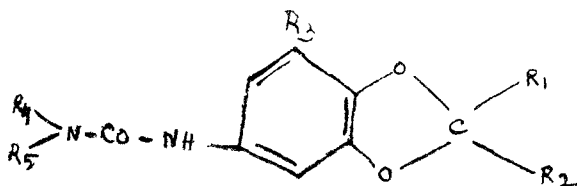
Inventors 1 DR FRIEDRICH ARNDT, 2 DR HEINRICH FRANKE

Application No 6 0/Cal/77 filed April 27 1977

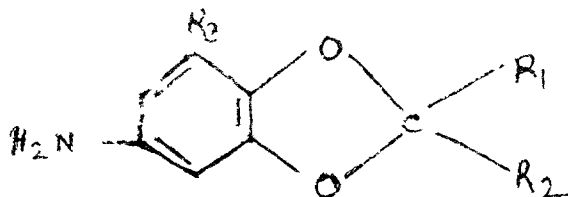
Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta

74 Claims

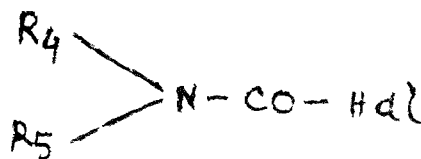
A process for the manufacture of a benzodioxole derivative of the general formula I shown in the accompanying drawings



in which R<sub>1</sub> and R<sub>2</sub> each represents a hydrogen atom or an unsubstituted or substituted aliphatic hydrocarbon group, an unsubstituted or substituted aromatic hydrocarbon group or an unsubstituted or substituted heterocyclic group, and R<sub>3</sub> and R<sub>4</sub> together with the adjacent carbon atom represent a cycloaliphatic hydrocarbon group which may be interrupted by at least one atom selected from nitrogen and oxygen atoms. R<sub>1</sub> represents a hydrogen atom or an aliphatic hydrocarbon group. R<sub>2</sub> represents an aliphatic or cycloaliphatic hydrocarbon group or an alkoxy group and R<sub>5</sub> represents a hydrogen atom or an aliphatic hydrocarbon group wherein a compound of the general formula II shown in the accompanying drawings



in which R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> have the meanings given above, is reacted in the presence of an acid-binding agent such as herein described with a carbamic acid halide of the general formula III of the drawings



in which R<sub>1</sub> and R<sub>2</sub> have the meanings given above and Hal represents a halogen atom

Compl specn 41 pages

Drg 1 sheet

CLASS 21-A, 52 A

155947

Int Cl A 43 d 7/04, A 43 d 119/00

# CUTTING APPARATUS FOR FLATBED SEWING MACHINES

Applicant BATA INDIA LIMITED OF 30 SHAKES, PAKL SARANI, CALCUTTA 700 017, WEST BENGAL, INDIA.

Inventor BATA INDUSTRIES LIMITED

Application No 712/Cal/77 filed May 12, 1977

Convention dated 12th May 1976 (252340) Canada

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

6 Claims

A cutting apparatus for cutting a strip of material connected to a component and extending beyond at least one edge thereof, the cutting being performed at said one edge, said apparatus comprising blade means for cutting the strip, tension means for tensioning the strip during cutting thereof, first plunger means engaging the tension means, second plunger means engaging the blade means, electromagnetic drive means for moving the first plunger means and tension means from a rest position to a tensioning position on each side of the blade means, and for moving said second plunger means and blade means from a rest position to a cutting position between the tensioning means, sensor for actuating said drive means when the component and strip are properly located beneath the blade means, and means for returning the blade means, tension means, and first and second plunger means to the rest position

Compl specn 14 pages

Drg 4 sheets

CLASS 130-D

155948

Int Cl C 22 b 5/04, 5 06, 21/02

# PROCESS AND APPARATUS FOR THE PRODUCTION OF ALUMINIUM METAL BY DIRECT REDUCTION OF ALUMINA WITH CARBON

Applicant ALCAN RESEARCH AND DEVELOPMENT LIMITED, OF 1 PLACE VILLE MARIE, MONTREAL, QUEBEC, CANADA

Inventors 1 IRVING WILLIAM DEWING, 2 RAMAN RADHA SOOD, 3 FREDERICK WILLIAM SOUTHAM

Application No 766/Cal/77 filed May 21, 1977.

Convention dated 28th May 1976 (22474/76) U K

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

26 Claims

A process for the production of aluminum metal which includes the steps of establishing a circulating stream of molten alumina slag containing combined carbon in the form of at least one of aluminum carbide and aluminum oxycarbide, circulating said stream of molten alumina slag through a series of alternately arranged low temperature zones and high temperature zones, each low temperature zone being maintained at least in part at a temperature at or above that required for reaction of alumina with carbon to form aluminum carbide but all below that required for reaction of aluminum carbide with alumina to release Al metal, forwarding said stream of molten alumina slag from a low temperature zone to a high temperature zone maintained at least in part at a temperature at or above a temperature required for reaction of aluminum carbide with alumina to release Al metal, collecting and removing Al metal released at said high temperature zone, forwarding said molten alumina slag from said high temperature zone to a succeeding low temperature zone introducing carbon to the circulating stream of alumina slag in said low temperature zone, introducing alumina into said circulating slag

stream at least one location and removing evolved gases, said series including at least one low temperature zone and at least one high temperature zone.

Compl. specn. 54 pages.

Drg. 11 sheets.

CLASS : 122

155949

Int. Cl. : B 01 d 5/00, 5/02.

TREATMENT SYSTEM AND METHOD FOR DEWATERING A SUSPENSION OF SOLID IN A CARRIER LIQUID

Applicant : DORR-OLIVER INCORPORATED, OF 77 HAVEMEYER LANE, STAMFORD, CONNECTICUT, UNITED STATES OF AMERICA.

Inventor : J. MARK PHILLIPS FREEMAN.

Application No. 795/Cal/77 filed May 25, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 27 Claims

A treatment system for dewatering a suspension of solids in a carrier liquid, subject to the influence of an electric field, which comprises :

a treatment tank,

feed means for supplying a flow of said suspension to the tank,

means for confining in said tank a body of the suspension of a predetermined maximum depth,

a first series of electrode structures adapted for the formation on the electrode surfaces thereof of a layer of cake of suspension solids under the influence of said electric field, each electrode member of said first series of electrode structures being movable to emergence from said suspension and back into submergence,

a second series of electrode structures arranged as counter electrodes in alternation with the electrode members of the first series in said suspension, so that cathodic electrode members alternate with anodic electrode members all being spaced predetermined distances from one another, each electrode member of said second series of electrode structures comprising a hollow body having a liquid pervious wall presenting a filtration area opposed to an electrode surface of an electrode member of said first series of electrode structures, and adapted for the passage therethrough of a flow of carrier liquid as filtrate separated from solids migrating in the opposite direction towards an opposed electrode member under the influence of the electric field.

field adjusting means for controlling the density of said electric field to thereby regulate the dewatering rate of said suspension of solids.

a vacuum supply connected to the hollow bodies of the electrode members of said second series of electrode structures, adapted to provide a pressure differential for effecting passage of said carrier liquid through said filtration area.

pumping means effective separate from the vacuum supply for drawing filtrate liquid from said hollow electrode members at a controlled rate balanced against the vacuum.

and actuating means operable for removing and recovering the cake formation from said electrode surface.

Compl. specn. 50 pages

Drg. 12 sheets.

CLASS : 49-A

155950

Int. Cl. : A 21 d 15/02.

PROCESS FOR PRODUCING A DRIED, CRISP, EDIBLE, COHESIVE WAFFER-SHAPED BAKERY PRODUCT.

Applicant & Inventors : MARTIN MOLLHAUSEN, OF MORGEDALSVEIEN 23, OSLO 3, NORWAY, AND GJORG MOLLHAUSEN, OF NORDBERGVEIEN 54, OSLO 8, NORWAY.

Application No. 798/Cal/77 filed May 26, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 16 Claims

A process for producing a dried, crisp, edible, cohesive wafer-shaped bakery product having the property of excellent keepability, said process comprising :

forming a mixture of 30 to 90% wheat bran, 8 to 68% of at least one ingredient selected from the group consisting of rye flour and wheat flour, and 2% salt, all of said percentages being of total mixture weight;

adding water to said mixture while stirring to form porridge-like dough;

forming said dough into pieces of desired shape and desired thickness; and

baking said pieces and removing substantially all of the moisture therefrom to form brown, dried, crisp, edible, cohesive wafer-shaped products having a maximum water content of 10 weight percent.

Compl. specn. 25 pages.

Drg. Nil.

CLASS : 32-F<sub>2</sub> b; 32-F<sub>3</sub> a; 32-F<sub>3</sub> d

155951

Int. Cl. : C 07 d 3/00.

A PROCESS FOR THE PREPARATION OF NOVEL DERIVATIVES OF PSORALENE.

Applicant : FOTOBIO HOLDING A.G., OF BAARER-STRASSE 10, ZUG, SWITZERLAND.

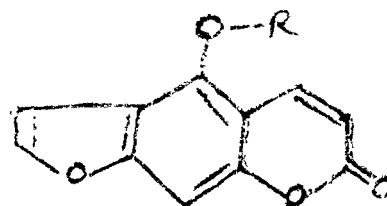
Inventor : DR. FCKHARD NIKOLAISKI.

Application No. 800/Cal/77 filed May 27, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims

A process for the preparation of psoralene derivative of formula 1 shown in the accompanying drawings



in which R is a group selected from the group consisting of an acylated aliphatic, acylated aromatic, acylated heterocyclic, phosphoryl, alkyl, and amino-alkyl groups, comprising reacting 5-methoxy-psoralene with anhydrous pyridinium chloride at a temperature of 170°C to 190°C accompanied by agitation for one to four hours to form 5-hydroxy-psoralene, cooling with crushed ice and washing the reaction mixture several times with cold water, drying and recovering the 5-hydroxy-psoralene by recrystallisation from absolute

ethanol, reacting said 5-hydroxy-psoralene with a halide RX wherein R is as above defined, in the presence of sodium hydride, at ambient temperature accompanied by vigorous agitation, and cooling the reaction mixture for between 40 and 48 hours, and then pouring said reaction mixture onto crushed ice, suction filtering and washing with cold water and drying and then recrystallizing to obtain said RO-substituted psoralene in purified form.

Compl. specn. 20 pages.

Drg. 2 sheets.

CLASS : 128-G & H

155952

Int. Cl. : A 61 f 13/20.

#### COLLAGEN SPONGE CONTRACEPTIVE DEVICE.

Applicant & Inventor : MILOS CHVAPIL, OF 5655 N. MINA VISTA, TUCSON, ARIZONA 85718, UNITED STATES OF AMERICA.

Application No. 543/Del/78 filed July 24, 1978.

Division of Application No. 2080/Cal/76 dated 19th November, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 13 Claims

A contraceptive device for insertion in the upper vault of the vagina proximate the cervix comprising :

- (a) a reconstituted collagen mass having a size and shape for insertion in the upper vault of the vagina;
- (b) said collagen mass having a porous sponge structure with pore diameters ranging from 80 u to 1400 u.

Compl. specn. 34 pages.

Drg. 3 sheets

CLASS : 40 F

155953

Int. Cl. : B 01 j 4/00.

APPARATUS OIL, INC. AT P.O. BOX 391, ASHLAND, KENTUCKY 41101, U. S. A.

Inventor : RICHARD HARRINGTON REYNOLDS.

Application No. 544/Del/78 filed July 24, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims

An injection assembly for introducing multiple sprays of a normally liquid hydrocarbon feedstock into the upstream end of a furnace designed for thermally dissociating said feedstock into a tread grade rubber reinforcing carbon black, which comprises :

an elongated metallic cylindrical housing member having downstream and upstream closure ends and equipped with means for cooling the interior confines thereof; a metallic tubular feedstock supply line centrally positioned within said housing member and projecting beyond the downstream and upstream closure ends thereof; a plurality of metallic tubular feedstock supply lines parallelly disposed in relation to said centrally positioned supply line within said housing and projecting beyond the downstream and upstream closure ends thereof, said downstream projections helically disposed about the corresponding projection of the centrally positioned feedstock supply line and individually adapted to be rotated so as to provide variable sinus of injection radially removed and axially aligned with respect to the downstream end of said centrally positioned feedstock supply line; and spray means terminating the downstream projection ends of said feedstock supply lines,

Compl. specn. 14 pages.

Drg. 1 sheet.

CLASS : 32-F<sub>2</sub> c

155954

Int. Cl. : C 07 c 103/10.

#### PROCESS FOR THE PRODUCTION OF FORMAMIDES.

Applicant : U.C.B., S.A. OF RUF D'ANDERLECHT 33, B-1620 DROGENBOS, BELGIUM.

Inventor : WILLY COUTEAU.

Application No 357/Cal/77 filed March 10, 1977.

Convention dated 12th March, 1976 (10027/76) U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 17 Claims

In a process for the production of a formamide, wherein a current of a gas containing carbon monoxide is reacted at elevated temperature and pressure such as herein described in a reaction zone with a recycled current of liquid reaction mixture containing :

- (a) a nitrogen-containing compound selected from the group consisting of ammonia, a primary alkylamine and a secondary alkylamine,
- (b) a methanolic solution of an alkali metal or alkaline earth metal methoxide as catalyst, and
- (c) the formamide produced as reaction product, part of the current of liquid reaction mixture being withdrawn in order to recover the formamide therefrom, the improvement which comprises using the recycled current of liquid reaction mixture for sucking and dispersing the current of gas in the reaction zone.

Compl. specn. 22 pages.

Drg. 2 sheets.

CLASS : 28-E; 84-A

155955

Int. Cl. F 23 c 7/00.

#### PROCESS FOR THE PARTIAL COMBUSTION OF SOLID PARTICULATE FUEL FOR THE PRODUCTION OF FUEL GAS AND BURNER FOR CARRYING OUT THE PROCESS.

Applicant : SHFLI INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., OF CAREL VAN BYLANDT-LAAN 30, THE HAGUE, THE NETHERLANDS.

Inventor : IAN POLL.

Application No. 1107/Cal/80 filed September 30, 1980.

Convention dated 2nd October, 1979 (7934174) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 16 Claims

A process for the partial combustion of a fuel in particulate form to produce fuel gas characterized in that the particulate fuel is centrally injected in a stream into a pre-mix zone in which it encounters a plurality of streams of a primary supply of oxygen or oxygen containing gas which impinge on it at an angle of between 30 and 60° relative to the axis of the flow of the particulate fuel and at a velocity in excess of that of the said fuel so that they penetrate the particulate fuel stream, a secondary supply of oxygen or oxygen containing gas being introduced into the pre-mix zone in the vicinity of the primary supply and at a velocity in excess of that of the particulate fuel so that the mixture of said fuel and oxygen or oxygen-containing gas leave the pre-mix zone through a converging-diverging nozzle in order to enter the combustion zone, it substantially forms a shroud of gas around the particulate fuel.

Compl. specn. 13 pages.

Drg. 1 sheet.

## REGISTRATION OF ASSIGNMENTS, LICENCES, ETC.

## (PATENTS)

Assignments, licences or other transactions affecting the interests of the Original Patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests.

100523	
100662	Coiltek Associates
116763	
100523	
100662	Coiltek Corporation
116763	
133347	
134988	The Firestone Tire & Rubber Company
135900	
138333	
131645	
136011	Energy Development Associates Inc
135476	

116835

140466

Indian Petrochemicals Corporation Limited

143650

144967

144640

Dunlop India Limited

149306

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act 1911.

The date shown in each entry is the date of registration of the designs included in the entry.

NIL

A. K. ACHARYA  
Controller General of Patent, Designs  
and Trade Marks